



FIG. 1A

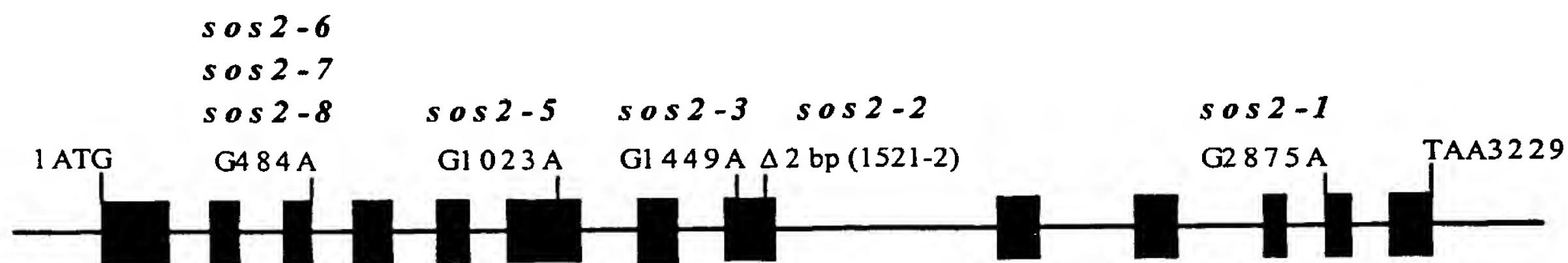
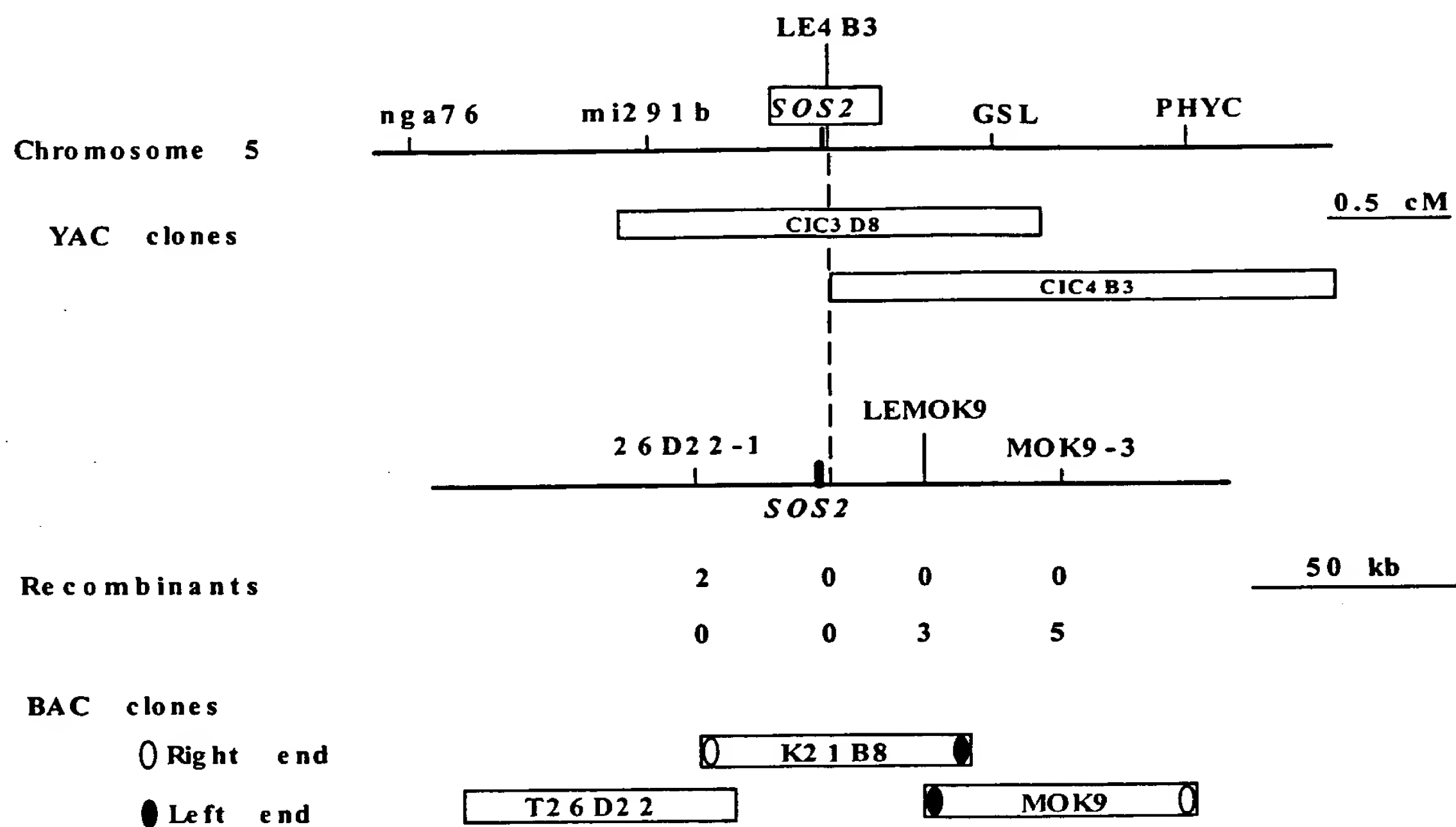


FIG. 1B



FIG. 2A



FIG. 2B

TCGATCAGATAAAAGTTTGLAAGA

1 ATGACAAAGAAAATGAGAAGAGTGGCCAAAGTACGAGGTTGGTCCCAATACGTGAACGAACCTTTCTAAGGTTAAG
M T K K M R R V G K Y E V G R T I E T F A K K

-- I --

27 TTTCCGACGAACACAGACACTGGTATATGTACCATCAAAATTATCCCTAAGAGTACAATACCTTAAGAACAGAATG
F A R N T D T G D N V I I M A K S T I L K N R M

-- II --

53 GTTGATCAGATAAAAGAGAGATATCTATATGAAGATTGTTGGTCAACCGAACATAGTGAGGTTGTATGAGGTGTTG
V D Q I K R I S I M K I V R H P N I V R L Y E V L

-- III -- -- IV --

79 CCGAGTCCCTTCGAAAATATATATAGTTTGGAGTTTGTGACACGACGAGACCTCTTTGATAGAATTGTTCAATAACGG
A S P S K I Y I V L E F V T G G E L F D R I V H K G

-- V --

105 ACCCTTGAAGAAAGTGAGTCTCCGAAATACTTTCAACACCTTGTAGATCCTGTTCTCATTTGTCACTCCAACGGTGT
R L E E S E S R K Y F Q Q L V D A V A H E H C K G V

-- VI --

131 TACCACTGACCTAAACCCAGAAAATCTTTACTCGATACAAATCGAAATCTGAACGTTTCCGATTTCGACTCAGT
Y R L K P E L L L D T N G N L K Y S L S

-- VII --

157 CCAATCCCTCAGGAACGAGTAGAATTCTCGTACCACATGTGGAACCTCCGAACTATGTACCTCCAGAGCTACTTACT
A L P Q E G V E L L R T T C G P N Y V A P V L S

-- VIII --

183 CCGACACGGTTACGATCGTTCAACACCTGATATTTGGTCTTCCCGGTTATTTCTTTTCGTTATATTCCTCGATATTTA
G Q G Y D G S A A I W S C I L F V I L A G Y L

-- IX --

209 CTTTTTCCGAGACCGATCTTCCACCGTTGTACAGAAAATAAATCCACGAGTTTCTTGTCCACCGTGGTTTCC
P F S E T D L P G L Y R K I N A A E F S C P P W F S

-- X --

235 CCGAAGTGAGGTTTTAATACATACGATACTTGACCCCAATCCCAAAACAGTATTCAAATCAAGGAATCAAGAAA
A E V K F L I H R L D P N P K T R I Q Q G I K K

-- XI --

261 GATCTTCTGTTGAGATTAAATTATGTCCCTATACGACCAACCGAAGAAGAAGAGTGAATTTGATGATATTCTGCA
D P W F R L N Y V P I R A R E E E E V N L D D I R A

287 GTTTTGTGATGAATTGACCCAGTTATGTACCCGAGAAATGTAGAGAGAAATGATGAACCCCTGATGATGAATCCC
V F D G I E G S Y V A E N V E R N D E G P L M M N A

313 TTTGAGATGATTACCTATCACAACTTAAATTTATCTGCACTATTTGACACCCGACAGATTGTTAAAACCCAA
F E M I T L S Q G L N L S A L F D R R Q D F V K R Q

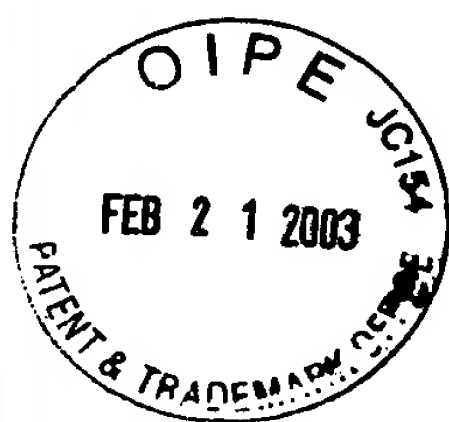
339 AXXGTTTTGTTCTCGAAGCGAAGCTAGTGAGATATTTCTAACATTGAGCTGTACCGAACTCAATCGGTTTTAAG
T R F V S R R E P S E I I A N I E A V A N S M G F K

365 TCTCATACACGAACTTCAAGACAACCTCGACCGATTATCTTCGATCAACCCCGACAGTACCTGTTGTGATAGAG
S H T R N F K T R L E G L S S I K A G Q L A V V I E

391 ATTTACGAGTCCACCATCCCTTTTCATCGTACGAGTAAAGAACTCTCTGTTGAACTCTTGAATATCACAGTTCT
I Y E V A P S L F M V D V R K A A G E T L E Y H K F

417 TACAAGAAGCTATGTTCCGAACTCGAAAACATATATCGACCCCAACAGAAAGATACCAAAGTCAGAGATTCTCAGA
Y K K L C S K L E N I I W R A T E G I P K S E I L R

437 ACAATCAGTTTTGATCCCACTTAA
T I T F

**FIG. 3A**

*

SOS2	1	MTKKMR	IGTE	GT	EGTE	KVKE	ARN	DTGDNVA	KI	ARSTIL	NRMVDO
AMPK	1	MAEKQKHDGRV	IG	YV	EDTLGVSTFGKV	IG	QLTGHKVA	KI	QKERSLD	VG	
SNF1	45	SLADGA	IGN	QV	TLGEG	FGKV	LAY	TTTGQVA	KI	NNKV	ANSOMO
SOS2	56	IKREISIN	K	RHPN	LY	V	ASPK	Y	V	E	V
AMPK	61	IKREIQNK	LFRHPHI	KLYOVIS	P	F	MV	EYV	EGELFDY	ICK	GR
SNF1	101	IEREISYL	L	RHPHI	KLY	VIKSKD	ETIMV	EYA	GNE	FDY	VORD
SOS2	116	QQI	DAVAHCH	CK	G	VYHRDLK	PEN	LL	LTNG	K	S
AMPK	121	QQI	SAVYCH	RHMV	VHRDLK	PEN	LL	DA	NA	KI	AD
SNF1	161	QQI	SAVEYCH	RHK	VHRDLK	PEN	LL	DE	IN	KI	AD
*											
SOS2	176	VAPEV	ISG	QGY	DE	SAADI	WSCGV	IL	V	LAGY	LP
AMPK	180	TAPEVISG	LYAG	PEVD	IWSCGV	ILY	AL	CG	TL	PF	DD
SNF1	221	AAPEVISG	LYAG	PEVD	IWSCGV	ILY	AL	CR	RL	PF	DD
SOS2	236	EVKFLI	R	LD	PN	EK	TR	IQ	IQ	G	K
AMPK	240	SVATL	M	M	LO	V	PL	K	R	A	T
SNF1	282	GAAGLI	R	M	L	I	V	N	P	L	N

FIG. 3B

SOS2	332	QDFVK	ROT	RE	VS	RR	P	SE	IT	AN	E	A	V	A	N	S	E	K	S	---	T	R	N	F	K	T	R	L	E	G	S	I	K	A	G	O	L	A	V										
yCHK1	389	ICPP	E	R	T	R	E	S	R	A	S	R	E	T	I	I	D	H	L	Y	E	S	L	R	L	E	I	S	V	T	M	K	Y	V	R	O	T	I	Y	N	H	L	R	K	C	L	E	O	G
hCHK1	371	QRLV	K	R	T	R	E	E	L	A	K	S	Y	Q	C	K	E	C	E	K	L	G	Q	W	---	K	S	C	M	N	Q	T	E	S	T	S	N	N	K	I	F	K							
SOS2	389	IELI	Y	E	T	P	S	L	F	V	I	V	R	K	A	A	G	E	T	L	E	K	F	K	K	C	S	K	L	E	N	I	W	R	A	T	E	G	E	F									
yCHK1	449	IELT	N	E	H	N	E	L	E	I	E	I	R	N	G	D	T	L	E	K	E	F	K	N	V	S	S	G	K	P	V	L	T	D	V	S	O	N											
hCHK1	428	UN	L	E	A	D	-	D	K	I	L	V	D	E	L	S	K	E	D	G	L	E	K	R	H	L	K	I	G	K	I	D	S	S	Q	K	W	E											

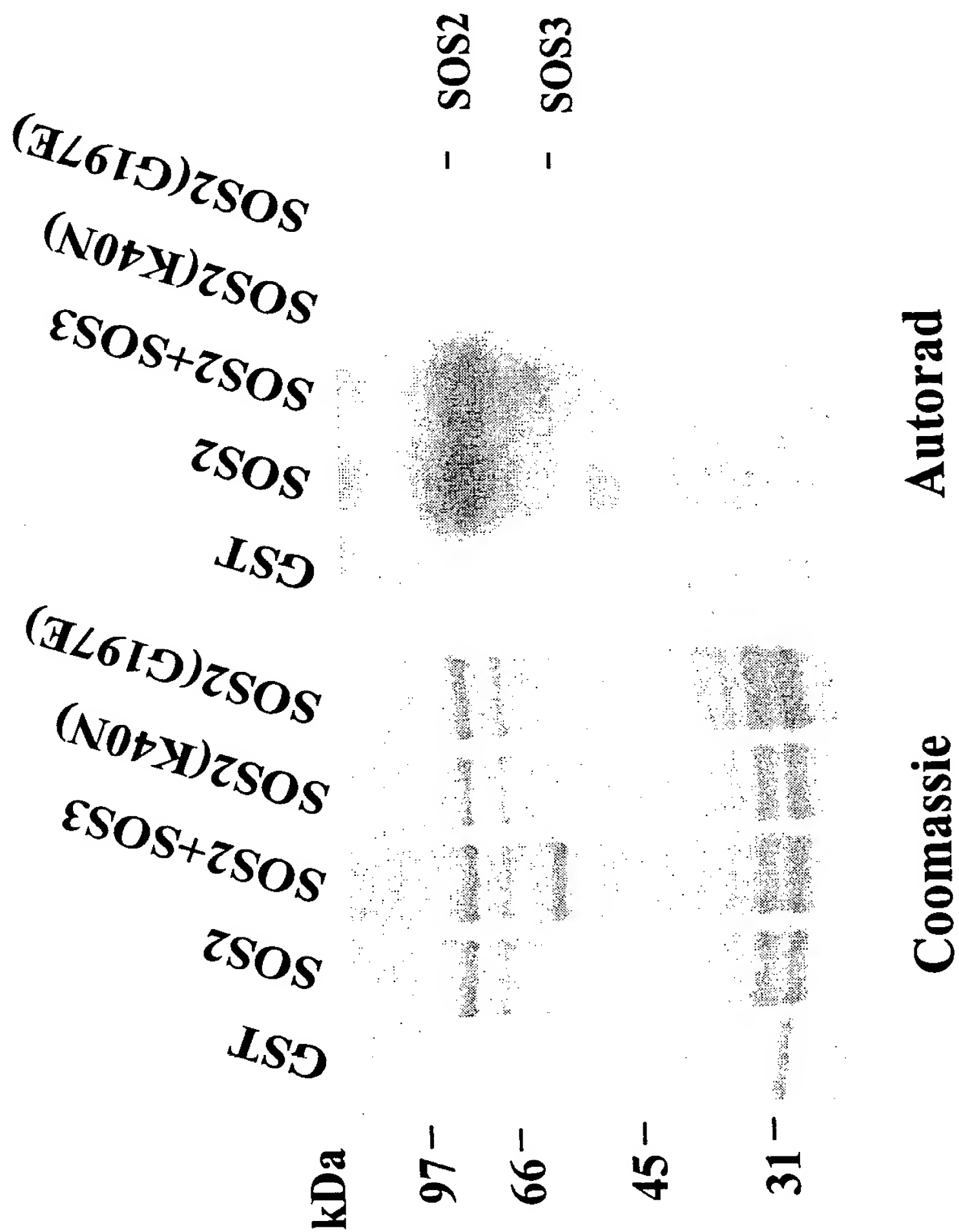


FIG. 4



FIG. 5A

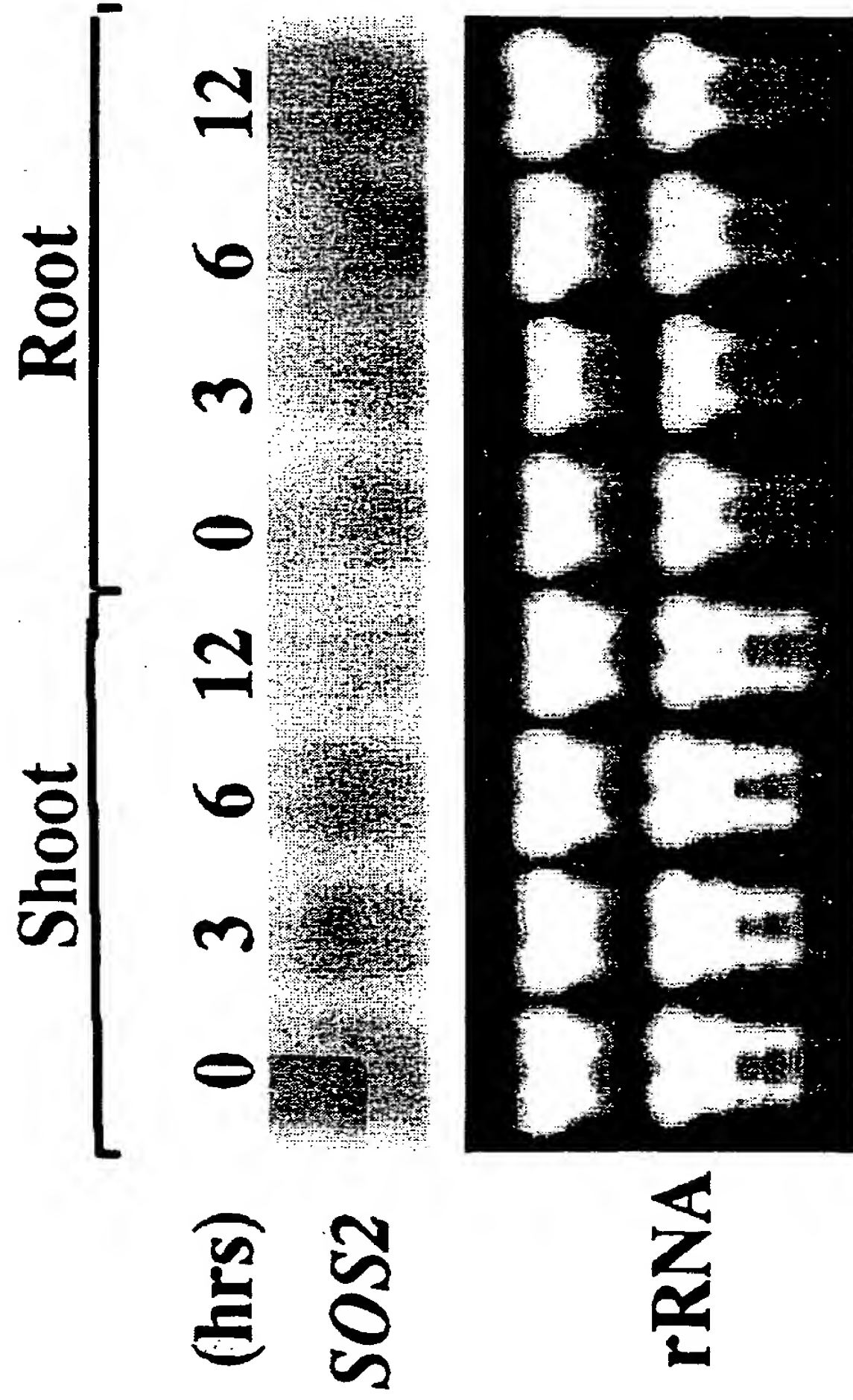


FIG. 5B

